AMENDMENTS TO THE CLAIMS

Please amend claims 3, 5 and 10 as follows:

- 1. (Cancelled)
- 2. (Previously Presented) The suspension damper of claim 19 wherein the tapered interface further comprises:
 - a shoulder on a portion of the rod; and
- a confronting surface on a portion of the piston proximate the shoulder.
- 3. (Currently Amended) A suspension damper comprising:
 - a cylinder defining a cavity being substantially filled with a fluid;
- a piston slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber:
- a rod coupled to the piston and extending through one of the chambers and exiting the cavity;
 - a resistance welded interface between the rod and the piston;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston in the cylinder; and
- an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and to maintain either an open position, a closed position, or at least one position between the open and closed positions between a

plurality of positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input;

wherein the resistance welded interface provides a fluid tight seal.

- 4. (Previously Presented) The suspension damper of claim 3 wherein the resistance welded interface is tapered.
- 5. (Currently Amended) A suspension damper comprising:
 - a cylinder defining a cavity being substantially filled with a fluid;
- a piston slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- a rod coupled to the piston and extending through one of the chambers and exiting the cavity;
 - a threaded interface between the rod and the piston;
- a snap ring proximate the threaded interface to align the rod relative the piston;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston in the cylinder;
- an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and to maintain either an open position, a closed position, or at least one position between the open and closed positions between a

plurality of positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input; and

a sealant at the threaded interface to provide a fluid tight seal between the rod and the piston.

6. (Previously Presented) A suspension system for a vehicle comprising:

a pneumatic suspension sub-system selected from at least one of the following: a vehicle air-suspension system and a vehicle air-leveling system, the pneumatic suspension sub-system generating an air pressure value as a function of a weight of the vehicle and a condition of the road on which the vehicle travels;

at least one damper comprising:

- (a) a cylinder defining a cavity being substantially filled with a fluid;
- (b) a piston slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber:
- (c) a rod coupled to the piston and extending through one of the chambers and exiting the cavity;
- (d) an interface between the rod and the piston to thereby provide a fluid tight seal;
- (e) a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston in the cylinder; and

(f) an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and to maintain either an open position, a closed position, or at least one position between the open and closed positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input.

- 7. (Original) The suspension system of claim 6 wherein the interface between the rod and the piston further comprises:
- a tapered interface region between the rod and the piston to thereby align the rod relative to the piston and provide the fluid tight seal.
- 8. (Original) The suspension system of claim 7 wherein the tapered interface region further comprises:
 - a shoulder on a portion of the rod; and
- a confronting surface on a portion of the piston proximate the shoulder.
- 9. (Original) The suspension system of claim 6 wherein the interface between the rod and the piston further comprises:
 - a resistance weld between the rod and the piston.

10. (Currently Amended) A suspension system for a vehicle comprising:

a pneumatic suspension sub-system selected from at least one of the following: a vehicle air-suspension system and a vehicle air-leveling system, the pneumatic suspension sub-system generating an air pressure value as a function of a weight of the vehicle and a condition of the road on which the vehicle travels;

at least one damper comprising:

- (a) a cylinder defining a cavity being substantially filled with a fluid;
- (b) a piston slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- (c) a rod coupled to the piston and extending through one of the chambers and exiting the cavity;
- (d) an interface between the rod and the piston to thereby provide a_fluid tight seal;

wherein the interface between the rod and the piston is a threaded coupling between the rod and the piston;

a snap ring proximate the threaded coupling to align the rod relative the piston; and

a sealant at the threaded coupling to provide the fluid tight seal between the rod and the piston;

(e) a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston in the cylinder; and

(f) an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and to maintain either an open position, a closed position, or at least one position between the open and closed positions between a plurality of positions to control the movement of fluid in the passage between the extension and compression chamber;

wherein a damping force of the suspension damper is a function of the air pressure input.

- 11. (Cancelled)
- 12. (Previously Presented) The damper of claim 20 wherein the uni-directional seal plate further comprises:
 - a step extending around a perimeter thereof.
- 13. (Previously Presented) A suspension damper comprising:
 - a cylinder defining a cavity being substantially filled with a fluid;
- a piston assembly slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- a rod coupled to the piston assembly and extending through one of the chambers and exiting the cavity;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston assembly in the cylinder;

an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and between a plurality of positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input; and

a uni-directional seal plate mounted in the piston assembly and in communication with the air pressure actuated control valve assembly;

wherein the uni-directional seal plate is adapted for mounting in the piston assembly in a predetermined orientation and includes a step extending around a perimeter thereof;

wherein the piston assembly includes a piston adapter having an annular lip crimped onto the step of the uni-directional seal plate.

- 14. (Original) A suspension damper comprising:
 - a cylinder defining a cavity being substantially filled with a fluid;
- a piston assembly slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- a rod coupled to the piston assembly and extending through one of the chambers and exiting the cavity;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston assembly in the cylinder;

an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and between a plurality of positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure;

a piston adapter having an annular lip crimped onto a portion of the air pressure actuated control valve assembly.

15. (Original) A suspension damper comprising:

- a cylinder defining a cavity being substantially filled with a fluid;
- a piston assembly slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- a rod coupled to the piston assembly and extending through one of the chambers and exiting the cavity;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston assembly in the cylinder;

an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and between a plurality of positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure;

a biasing member urging the air pressure actuated control valve assembly toward a closed position;

a retainer coupled to the biasing member to thereby secure the retainer relative to the biasing member.

- 16. (Original) The suspension damper of claim 15 wherein the biasing member is a spring.
- 17. (Original) The suspension damper of claim 15 wherein a portion of the suspension damper is deformed during assembly thereof to capture the retainer.
- 18. (Previously Presented) A suspension damper comprising:

a cylinder defining a cavity being substantially filled with a fluid;

a piston slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;

a rod coupled to the piston and extending through one of the chambers and exiting the cavity;

a tapered interface between the rod and the piston to thereby align the rod relative to the piston, the tapered interface comprising a frustoconical section formed on an outer surface of the rod and having an axis of revolution extending along a direction parallel to a longitudinal axis of the rod;

a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston in the cylinder; and

an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and between a plurality of positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input;

wherein the tapered interface provides a fluid tight seal.

- 19. (Previously Presented) A suspension damper comprising:
 - a cylinder defining a cavity being substantially filled with a fluid;
- a piston slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- a rod coupled to the piston and extending through one of the chambers and exiting the cavity;
- a tapered interface between the rod and the piston to thereby align the rod relative to the piston;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston in the cylinder; and

an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and to maintain either an open position, a closed position, or at least one position intermediate the open and closed positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input;

wherein the tapered interface provides a fluid tight seal.

- 20. (Previously Presented) A suspension damper comprising:
 - a cylinder defining a cavity being substantially filled with a fluid;
- a piston assembly slidably positioned in the cylinder separating the cavity into a compression chamber and an extension chamber;
- a rod coupled to the piston assembly and extending through one of the chambers and exiting the cavity;
- a passage through which the fluid moves between the extension chamber and the compression chamber during sliding of the piston assembly in the cylinder;

an air pressure actuated control valve assembly responsive to an air pressure input for adjustment to and to maintain either an open position, a closed position, or at least one position intermediate the open and closed positions to control the movement of fluid in the passage between the extension and compression chambers;

wherein a damping force of the suspension damper is a function of the air pressure input; and

a uni-directional seal plate mounted in the piston assembly and in communication with the air pressure actuated control valve assembly;

wherein the uni-directional seal plate is adapted for mounting in the piston assembly in a predetermined orientation.